



***K8***

# User Manual

[www.innovative.com.sg](http://www.innovative.com.sg)

Color and appearance may differ with the icons in this manual, product specifications may vary due to the improved performance without notice

**V 1.0**

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Thank you for purchasing our LED mini projector!

Please read the manual carefully before you start to use the projector. The projector is designed for home entertainment, and it will project a big screen as you like at any time.

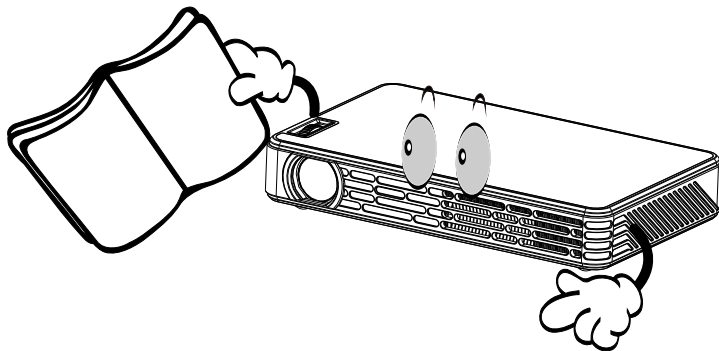
## 1 Features

The projector integrates high performance optical engine and friendly interfaces with high reliability. Driven by RGB LED and DLP, it provides you with vivid images.

- 1280×800 Resolution; Support DLP-LINK 3D READY
- R/G/B LED, over 20000 hours lamp life;
- Support AV/HDMI/VGA sources; HDMI port can supply power for smart dongle; Coaxial audio output for multi-channel surround sound;
- Built-in multimedia, support 1080P, 3D video/Music/Photo/E-book;
- Video playback breakpoint memory function ;
- Built-in TV(optional);built-in lithium battery(optional);built-in FM audio transmitter(optional);
- 100% offset, easy to use and install;
- Instant ON/OFF, without waiting for the machine to cool;
- Display 16.7 million color.

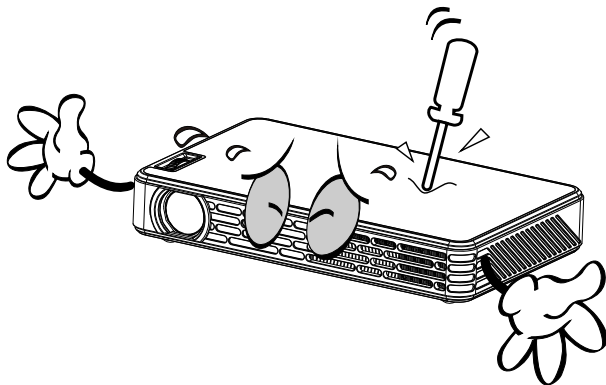
## 1.1 Safety Instructions

- To ensure the safety of using this product, please follow the using instructions.



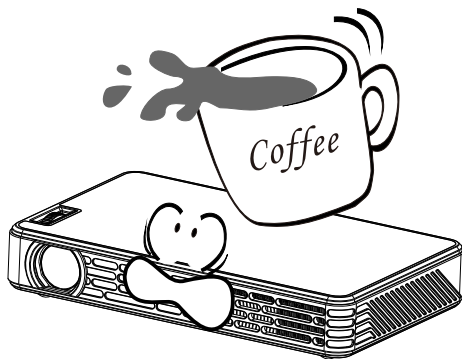
- Please use the adaptor specified, other products may damage the projector.

- Do not disassemble, modify, throw, or drop the projector, otherwise it may cause damage;

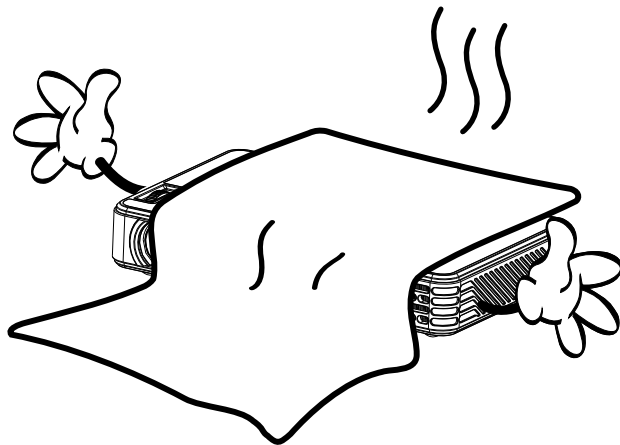


- The Projector must be repaired by professional technicians;
- The battery is integrated, do not to cover up or modify.

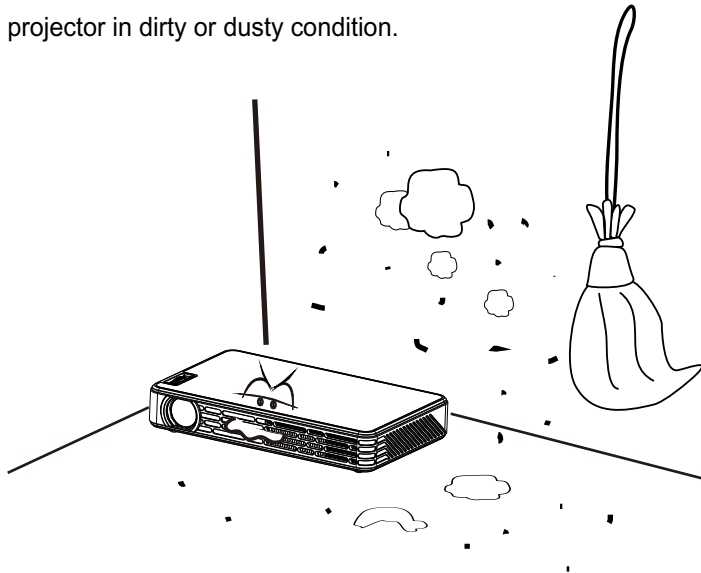
- Do not drop metal objects into the projector, otherwise it will result in damage; if any external objects land inside the projector, please turn off the power quickly.
- Do not place liquids near or on the projector. If liquid has been spilled into the machine, immediately turn off the power, and do not use.



- Use the projector in a well-ventilated area with temperature range 0-35°C/humidity 0~85%. Use at an elevation 2000m or lower.
- Do not block the air outlet vents; do not use the projector on bedding, blankets and other soft surfaces; Do not cover the vents with cloth or other objects; If the projector ventilation holes are disrupted, excessive internal temperature may damage the projector, or may cause a fire hazard;

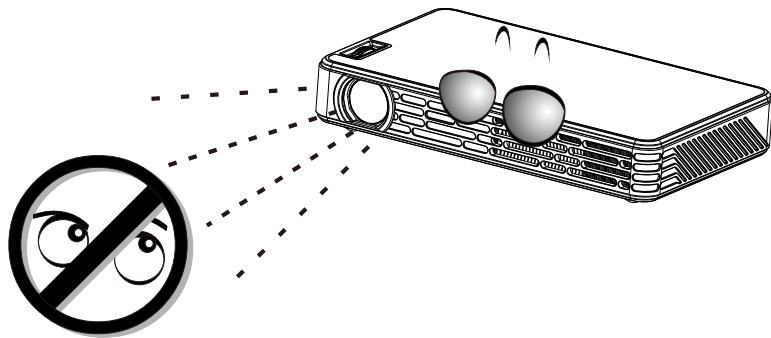


- Do not use the projector under extreme light or near a strong magnetic field.
- Do not use the projector in dirty or dusty condition.





- Do not look directly into the lens while the projector is running, it may damage your eyes.



- This product and the user manual for further improvement or supplemented without notice. 7

## Attention for viewing 3D movie

- Long close watch will affect vision;
- Wear stereo glasses watch program or game for long time will cause dizziness or eye fatigue;
- Pregnant women, elderly, patients with heart disease or prone to vomiting, to avoid excessive viewing;
- May make viewing three-dimensional images as reality frightened or excited.
- Do not place fragile or dangerous goods around when viewing stereo movie;
- The illusion of viewing stereo movie may cause people have suddenly action to injure other person;
- Prohibit children under 5 years old to view stereo movie. May affect the normal visual development;
- Photosensitive (light anaphylactic) allergy warning

1. Some people see specific things or flashing screen or certain mode screen in video or game, there will be an exception. Viewer or a loved one has epilepsy, photosensitive allergy history, please consult with a doctor before watching. Such as the viewing of the following symptoms immediately terminate and rest.

2. Dizziness, visual disorders, eyes or facial instability, as unconscious, convulsions, loss of consciousness, confusion, disorientation, nausea. If the above phenomenon continues, please consult your doctor.

- Taking the following measures to reduce the risk of allergies and other photosensitive when view 3D movie

1. Please rest 5-15 minutes when watch an hour.

2.If the vision of two eyes are different, please watch after correction.

3.The eye height aim the 3D image, positive watch.

4.Please stop watching when feel headache or fatigue, dizziness.

5.Do not watch long when hardship, fatigue or illness.

- Children watch in the guardian care.

Please confirm when watching 3D

1.Please watch 3D image in effective audition angle and distance.

2.May not see the screen outside the valid audition or distance. You can not see the screen when prone position.

3.There is a short adaption time to re-watch screen when divert attention in watch halfway.

4.Under fluorescent lights(50 Hz ~ 60 Hz), 3-wavelength lights, window around, the image may flick when watching.Recommend use the curtain to block the lights, to maintain indoor dim.

5.Must use the active 3D glasses support the DLP-LINK.

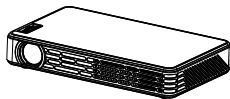
6.Can not see the image when there is a obstacle between the projector and glasses.

7.The position of the projector should keep a distance as far as possible with other machines.

- Product and user manual may vary due to the improved performance without notice.

## 1.2 List of items

Please unpack the box carefully; Box contents include:



Projector



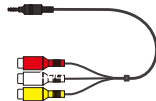
Remote



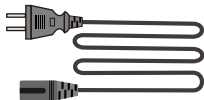
TF card  
(optional)



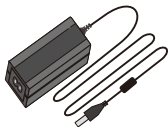
active3D  
(optional)



AV CABLE

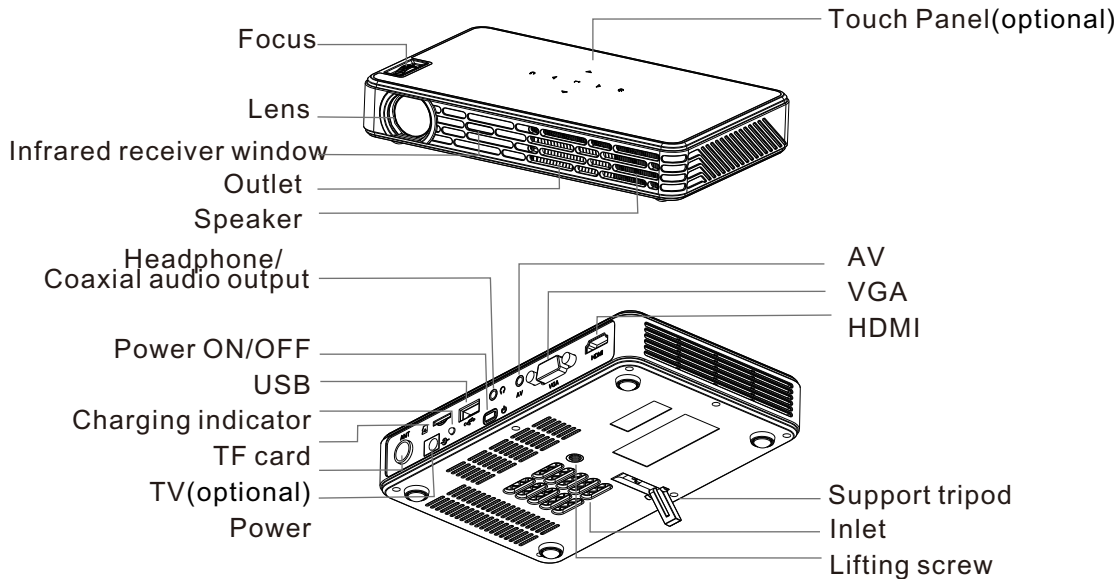


Power Cable

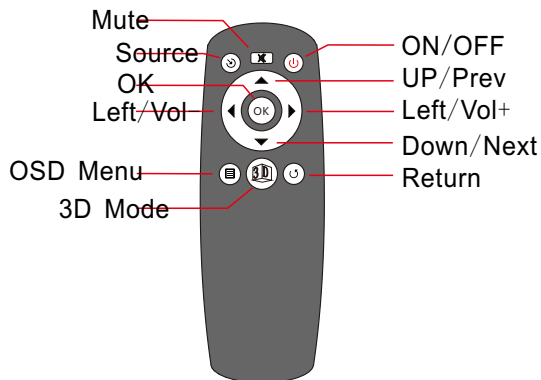
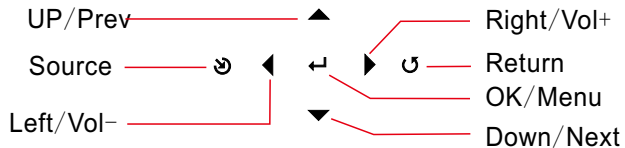


Adaptor

## 2 Projector Exterior View



### 3. Touch Key Instructions



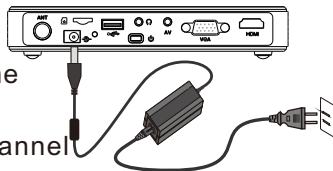
## 4 Projection size and distance table(just for reference)

Turn the focal wheel to adjust the focal length to obtain a more clear picture.

Size(unit:inch) <small>Remark: The suggested projection is between 40 inches and 100 inches.</small>	Distance(unit:m)			Series number with H 16:10
	16:10	16:9	4:3	
20	0.50-0.53	0.53-0.55	0.57-0.61	0.63-0.66
40	1.04-1.08	1.06-1.10	1.16-1.20	1.27-1.31
50	1.30-1.34	1.33-1.37	1.46-1.50	1.59-1.63
60	1.56-1.62	1.59-1.65	1.75-1.81	1.92-1.95
80	2.09-2.17	2.12-2.20	2.33-2.41	2.56-2.59
100	2.60-2.70	2.65-2.75	2.91-3.01	3.20-3.25
120	3.16-3.28	3.22-3.34	3.49-3.61	3.84-3.90

## 5 Projector operations

Connect one side of the projector to the AC plug, the other side to the projector DC port, then press the power for 3 seconds, the indicator flash till normally on, then access signal, select the corresponding channel can get the required image.

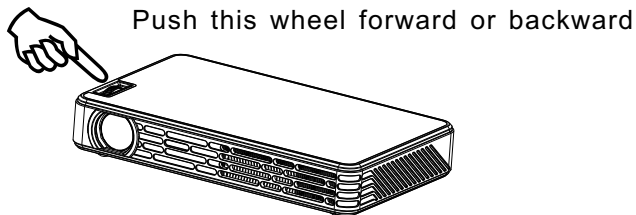


Note: When there is no signal for 15 minutes, it will shutdown automatically.

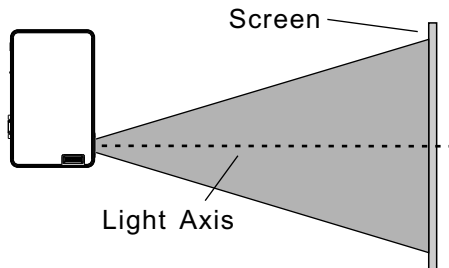
The projector may be equipped with battery, charging indicator light, said charging; charging indicator off, suggesting the power is full, completely full of power will take 1-4 hours. When using the battery, the remote boot is disabled, you can only press the body switch key to start the projector.

## 5. 1 Focus Adjustment

Push the wheel forward or backward make the picture clear.

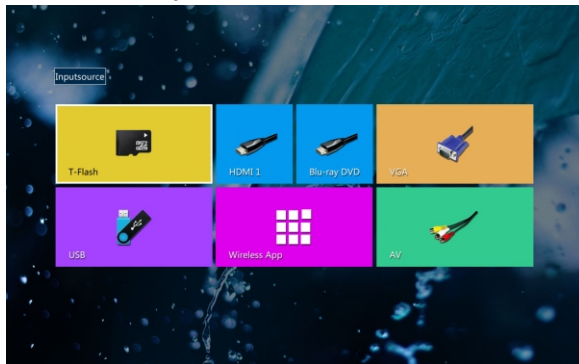


Note: keep projector and screen in horizontal level





## 5. 2 Select Input Source



This projector support following sources:

T-Flash-----Play contents inside TF-card

HDMI-----Connect to external devices with HDMI output

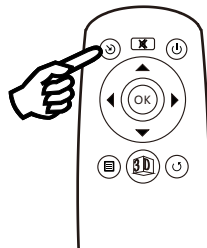
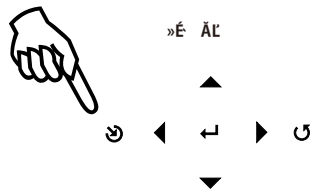
Blue-ray DVD----Connect Blue-ray player with HDMI output

VGA-----Connect to PC with VGA output

USB----play contents inside USB stick


AV----connect external devices with AV output

Press “Source” button upon the projector or the remote control and select related source input, press “OK” or “Enter” button for confirmation.

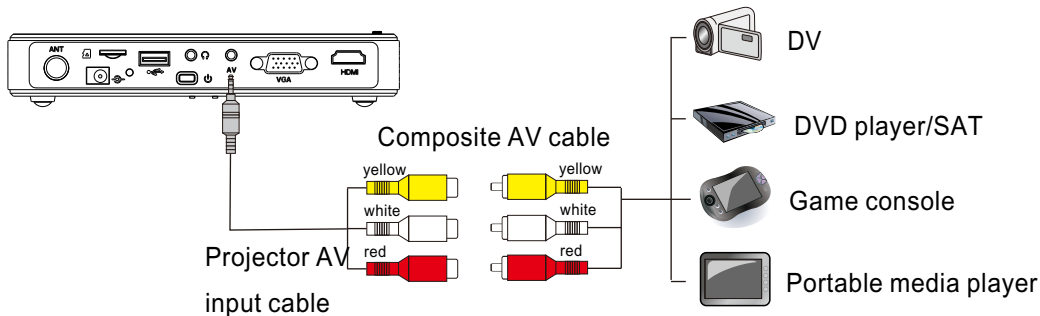




## 5.4 Connecting to video device

Connect one end of the AV cable to the projector, the other end to the AV equipment corresponding hole. press  on the panel or Source on the remote to change AV channel.

The complete connection should be like shown below.

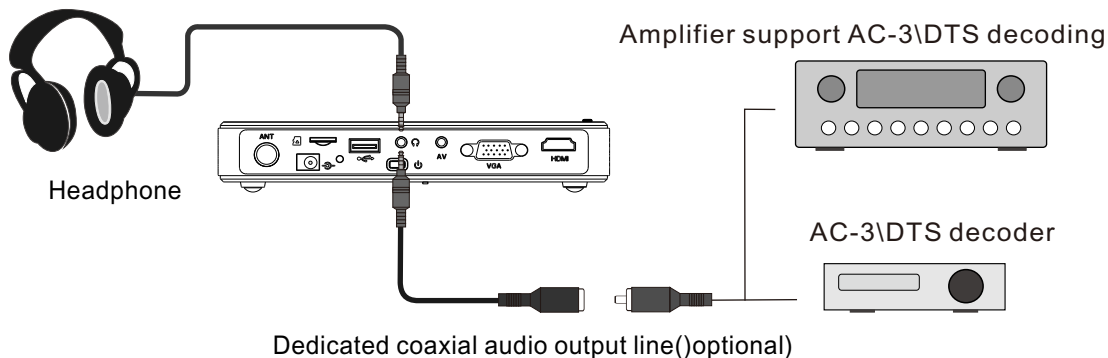


Note: There is different definition of the AV port, please use the AV cable in the packing. 17

## 5.5 Connecting to Audio device

Plug one end of the coaxial audio cable into the projector, the other end to the audio device that support AC-3/DTS decoding, you can enjoy 5.1 multi-channel surround sound, or plug in the stereo headphones to appreciate 2.0 stereo.

The complete connection should be like shown below.



Note: There is different definition of the coaxial audio out pine, please use out dedicated coaxial 18 audio output line.

## 5. 6 Connect to Wifi Display Dongle

Insert the Wifi display stick to HDMI port upon the projector, press “” button and switch to Wifi display

Connecting method as below photo:




\*Dongle is an optional purchase

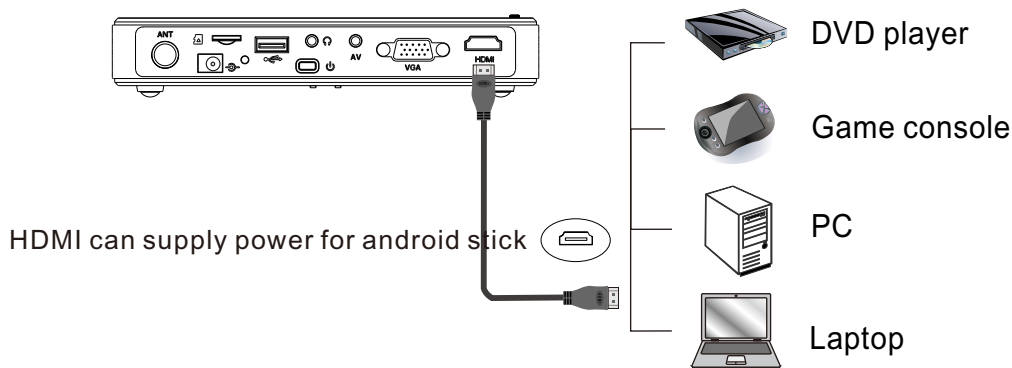
Note: If you do not choose the wireless application, but select the HDMI signal, the wifi dongle will no image output.

## 5.7 Connecting to HDMI device

Connect one end of the HDMI cable to the projector, the other end to the HDMI device.

Press  on the panel or Source on the remote to change to HDMI channel.


The complete connection should be like shown below.



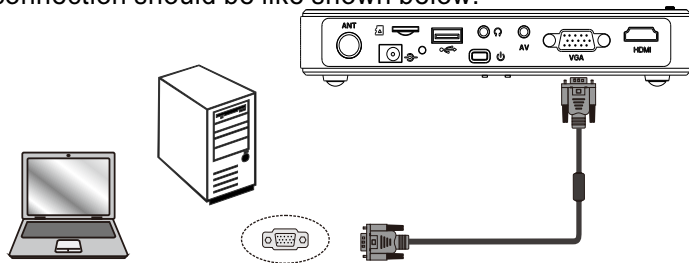
Note: Laptop with HDMI, press Fn+OSD button to switch, some laptop with automatic HDMI identification HDMI output, others need to set external display.

## 5.8 Connecting to PC

Connect one end of the VGA cable to the projector, the other end to the pc or laptop.

Press  on the panel or Source on the remote to change to VGA channel.











The complete connection should be like shown below.

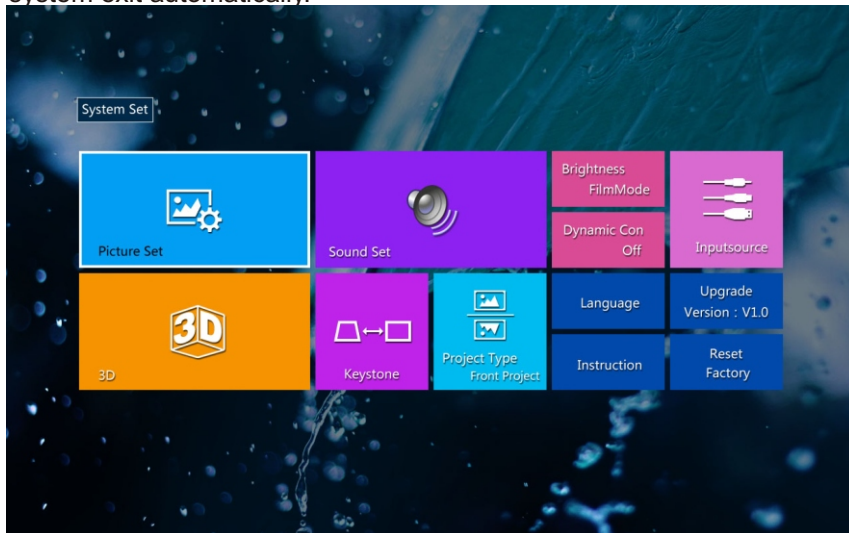


Note: If the projector can not display the VGA when boot and select the VGA channel, please follow the following steps to check and set the computer.

- 1 Check the VGA cable is connected properly, the input channel change to VGA channel;
- 2 Set the computer resolution to 1280×720 ;
- 3 Turn on the computer external video port. Press the Fn and the screen switching key, to copy or switch the computer display information to the projector;
- 4 There is copy and expand display to the external display device function in the computer setting, if it can not confirm whether the projection display, please check the setting.

## 5.9 System Setting Menu

Press  on remote or press  on machine, appears corresponding menu interface press     to adjust. Press  or  to enter. Press  or  to exit or waiting for several seconds until the system exit automatically.





## 5.9.2 Function Explanation

Picture Set: picture setting option

Sound set: sound setting option

Brightness standard: set projector brightness mode “Cinema mode, Eco mode1, Eco mode2”

Dynamic Con: turn on the option, projector will adjust contrast ratio automatically through different projection images

Input source: sources setting option

3D: 3D mode setting

Keystone: keystone correction setting

Projection type: Front, Rear, Ceiling mount projection etc option

Auto reverse (realize image reverse automatically through projection type)

Language: set projector language

Upgrade: upgrade the projector hardware

Instruction: after insert the TF-card equipped with projector, click on “Instruction” to get the electronic user manual

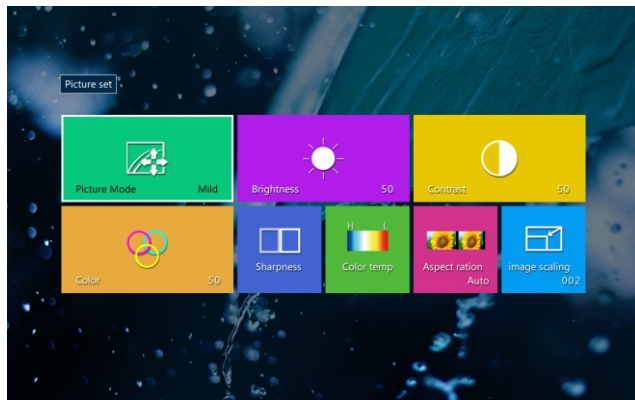
Reset factory: renew to factory default setting

## 5.9.3 Keystone Correction

Auto keystone correction: turn on, the projector will correct keystone automatically corresponding to the projection image

Manual adjustment: vertical  $\pm 40^\circ$

## 5.9.3 Picture Set



Picture mode: Standard/Soft/ User/Dynamic

Brightness: 0-100

Contrast ratio: 0-100

Color:0-100

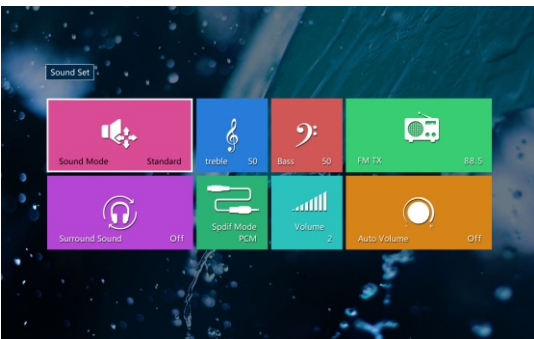
Sharpness: 0-100

Color temp: Standard/Warm/User/Cold

Aspect ratio: Auto/4:3/16:9/16:10

Image scaling: reduce image size “0-6” 6different options

## 5.9.4 Sound Set



Sound mode: Standard, Music, Cinema, Move, User

Treble: 0-100

Bass: 0-100

FM TX: Turn on/off FM function and set FM frequency

(Note: ensure frequency different with the frequency applied by local radio station)

SPDIF Mode: set coaxial audio output format

Surround sound: Set surround or SRS effect

Auto volume: turn on “Auto volume”, volume in projector will adjust automatically according to requirements

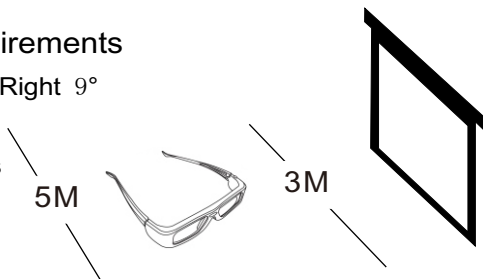
## 6. 3D Function

### 6.1 Watching 3D Image Requirements

Best viewing angle: Up/Down/Left/Right 9°

Best viewing distance: 3-5m

Suggest Projection Size: 60 inches



\* Usually, only to watch 3D video in a dark room.


\* Set the brightness mode to standard when watching 3D video.

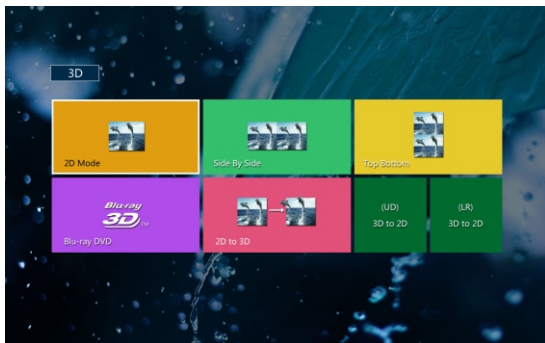
#### Notice

1.The pairing of the DLP-LINK glasses is impacted by the intensity of the reflected light of screen.

Therefor, the pairing of the DLP-LINK glasses can not work in following cases: the reflected light of the screen is not enough (such as the surround area is too bright) , the screen is too big or start a maximum energy mode.

## 6.2 Watch 3D Movie

Press  on remote or enter "System Setting menu" and select 3D mode, then select the correct 3D mode inside the projector to play Side by side, Blue-ray, Top bottom format 3D sources.



\*3D on/off: turn on the 3D option before check 3D content

\*Side by side 3D

\*top bottom 3D

\*Blue-ray 3D (connect to Blue-ray 3D player to play 3D movies)

\*2D to 3D (2D movies transfer to 3D directly via projector)

\*3D to 2D (side by side, top bottom 3D sources transfer to 2D source)

Note: If connect projector to Blue-ray Player to play 3D movies, please make sure HDMI cable is higher than 1.4, otherwise the Blue ray Player can not work normally.

## 6.3 Use DLP-LINK (DLP-Ready) type glasses

- 1 Press the button on the glasses when watching 3D images.
- 2 The glasses will flick after press the button, and synchronize with 3D images.  
(The flashing is a unique operation of DLP-LINK type glasses. This may be different due to the different types of glasses.)
- 3 If glasses flashes When viewing 3D images or there is a problem, please turn off the lights .  
Please contact your projector Machine vendors, consulting glasses aspects.

### Supported 3D Input format

Input	Resolution	Vertical Frequency (Hz)
HDMI	1280x720	120

- \* Only HDMI channel support 3D, projector recognize 3D signal automatically.
- \* The maximum resolution in 3D mode is 1280x720.
- \* Some menu may not work in 120HZ input.

### Notice for viewing 3D image

- \* If screen rock from side to side, because the computer configuration is not enough, please select higher configuration.
- \* When Watch the 3D images, you can press the button on the glasses to switch the image play direction left / right.
- \* It is a normal phenomenon if the picture partial red or ghosting without 3D glasses to watch. Please wear 3D glasses to watch.
- \* You can not change the 3D images size.

## 7.1 Multimedia Menu

The projector can play these media files(video/photo/music/text), and the support format includes

Video Format:(support video play with subtitle file. support file suffix:srt,idx,ssa,ass,smi,txt,ttx,sub.)

Video Format:	Suffix Name	Internal Code	Max Resolution	Max Baud Rate
MPEG1	DAT/MPG/MPEG	\	1920×1080/30P	20Mbps
MPEG2	MPEG	\	1920×1080/30P	20Mbps
MPEG4	AVI/MP4	DIVX. XVID	1920×1080/30P	20Mbps
RM/RMVB	RM/RMVB	RV8, RV9, RV10	1280×720/30P	10Mbps
H. 264	MKV/MOV	H. 264	1920×1080/30P	20Mbps
MJPEG	AVI	H. 264	640×480/30P	10Mbps

Music Format:

Music Format	Sampling Rate	Baud Rate	Sound Channel
WMA	8K-48K	32K-320Kbps	Mono. Stereo
MP3	32K-48K	32K-320Kbps	Mono. Stereo
M4A (AAC)	8K-48K	32K-320Kbps	Mono. Stereo

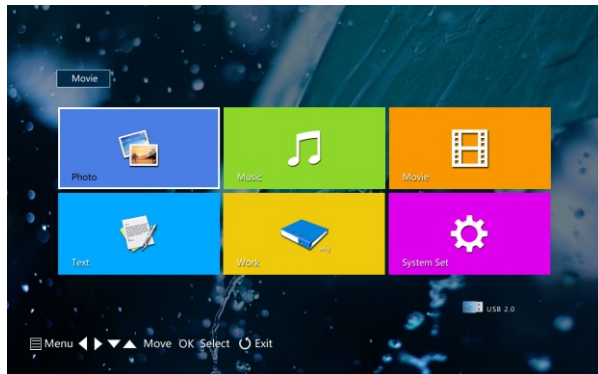
Photo Format:

Photo Format	Max Resolution
JPEG	15360×8640
BMP	9600×6400
PNG	9600×6400

- Remarks:
- 1 Support DIVX、XVID、H264 encoded file, do not support: MSVC/GRAM、MP42 GMC、IV32、RLE、cvid、RV20.
  - 2 Support AC3、MP3、AAC、Cook encoded file, do not support: SonyATRAC3、Dobly HD.
  - 3 Subtitle file and video file name must be the same, in the same folder. Not subtitle file name format: xx.xx.suffixn  
xx..xx.suffix, special symbols or formatting

## 7.2 Multimedia Interface



















Enter multimedia operating interface, press “left” “right” button at remote control or upon projector to select corresponding file type(photo,music,video,txt); then press “ok” and get interface as below image:



Select the right storage device, find the right file and press “Ok” button to play.



## Multimedia shortcut menu:

 Pause	Pause	 FB	Fast Back	 FF	Fast Forward
 Prev.	Previous	 Next.	Next	 Stop	Stop
 Repeat	Repeat	 Set A	Set A	 List	Playlist
 Info	Information	 Slow FW	Slow Forward	 Step FW	Step Forward
 Timing	Timing	 Zoom In	Zoom in	 ZoomOut	Zoom out
 Aspect..	Aspect Ratio	 Move	Move	 L+R	L+R

**Note :** You can choose channel, subtitles, chapters to play in the file info option.



## 8. PPT/PDF File Play

Before playing PDF/PPT files, you need to convert the file to MPTG file to play.

System requirements

CPU: Intel Pentium processor M1.5G or higher

Memory : above 256M

OS : Windows XP Sp2、 Windows Vista、 Win7

Office : Office2003.Office2007

PDF Reader: Adobe Reader8、 9、 9.1


### 8.1 Install the convert program

1 insert the Tfc card to the computer, find the installer.

2 double-click the icons to run the installation wizard, then follow the screen instructions.

3 when the installation is complete, there is a icon on your desktop.



4 double-click the icon to start program.  The control panel of this program as shown below:

### 8.2 Convert PPT/PDF to MPtG

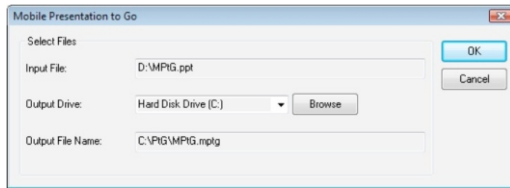
1 Select the operations on the control panel:

\*Click  convert PPT to MPtG.

\*Click  convert PDF to MPtG.

2 Select the PPT/PDF file need to convert.

### 3. Select the target location.




- \* Input file: the full path to the selected PPT/PDF file.
- \* Output driver: the target disk storage path.
- \* Output file name: convert name the full path to the file. The convert file is same name as the source file and store in the same path. (if not detected any removable disk)

4. Click OK to convert. After conversion, you can play the file on the projector directly.

### Restrictions and settings

**MPtG support most animation of the PPT on the desktop screen, except:**

- \* Using timer or automatic repeat playback animation
- \* Longer than 60 seconds of a single animation. If there is repeated animation, MPtG recording to 60 seconds.
- \* If the PPT screen stopped 3 seconds to replace the picture, the system will recognize it as a complete animation, and send the Enter key to the PPT.
- \* Embedded VBA and OLE objects.
- \* To change the time limit of animation, click the icon , then select 10/20/30/60.

## 9 Trouble Shootings

If you encounter any problem during using the projector, please refer to the below methods to solve the problem, if you still can not solve the problem, please contact the distributor.

### 9.1 Projector can not be powered on, no image

#### 1 check the power connection, the power work normal or not

Connect one end of the power cable to the projector, the other end to the socket. Be sure that the connection is correct, and the power indicator works. If the indicator does not light on, please replace the power cable or the adaptor.

#### 2 Over-heat protection

If the projector works long time, the heat will high, when it reaches a setting figure, the projector will be power off.

#### 3 Obstacle in front of the lens

Remove the obstacle.

#### 4 If using the battery to start the projector, no battery

Charging the battery and then use it. About the charging time, please refer to content in manual.

### 9.2 Image blurring

#### 1 Projector lens does not focus properly

Use the focus to adjust.

2 Projector does not aim the screen

Adjust the angle and direction, or height if necessary.

3 Lens is dirty

Clean the lens.

4 Light is strong

Pull down the curtain or power off some bulbs to lower the light.

### 9.3 No image

1 Video sources does not power on or connect wrong

Power on the video sources and inspect the connection.

2 Projector does not connect to the input port properly

Inspect the connection.

3 Select wrong input signal

Press  on the panel or Source on the remote to select correct input signal.

### 9.4 Remote failure

1 Battery runs out

Replace battery.

2 Barrier between projector and remote

Remove barrier.

3 Distance between projector and remote too long

The distance can not exceed 5m.

## 10 Technical Specifications

Name	CS-LED projector
Resolution	1280×800
Display Technology	DLP
Lamp	R,G,B LED
3D	DLP-LINK 3D Ready
Color gamut	≥110%
Power	100V-240V 0.8A
Power consumption	25W
Dimension(L×W×H)	180×110×28mm
Weight	520g/450g(No battery)
VGA input	standard VGA input port
AV input	3.5mm AV input port
HDMI input	standard HDMI input port
Support storage device file system	USB TF NTFS,FAT16,FAT32
Headphone	3.5mm stereo headphone
Audio output	5.1 coaxial audio output
Speaker	4Ω/1W/3W
Working Temperature	0°C-35°C
Working Humidity	0-85%

- This product and the user manual for further improvement or supplemented without notice.